

BOOK NOTICES
TAYLOR & FRANCIS

Medicinal and Aromatic Plants—Industrial Profiles

Each volume in the series discusses the history and botany of each genus, and provides an in-depth look at areas such as commercial cultivation, chemical and/or pharmacological aspects, toxicology, current and/or future products, etc.

MARIA LIS-BALCHIN (ed.). 2002. **Lavender: The Genus *Lavandula***. (ISBN 0-415-28486-4, hbk.). **Medicinal and Aromatic Plants—Industrial Profiles. Volume 29**. Series Editor: Roland Hardman. Taylor & Francis, 11 New Fetter Lane, London EC4P 4EE, UK and 29 West 35th Street, New York, NY 10001, U.S.A. (Orders: info@tandf.co.uk, www.tandf.co.uk, 44 (0) 207 583 9855, fax 44 (0) 207-842-2298, standing orders call 44 (0)1264 343071. **US and Canada Customers:** By mail: Taylor & Francis Customer Service, 10650 Toebben Drive, Independence, KY 41051, U.S.A., Toll Free Tel: 1-800-634-7064, Toll Free Fax: 1-800-248-4724, email: cserve@routledge-ny.com). \$128.00, 268 pp., numerous b/w photos drawings and tables, 17 color plates 7" × 10".

From Taylor & Francis website.—"With contributions from lavender researchers worldwide, this book will be of interest both to graduate students and scientists in academia and industry who are involved with lavender, to professionals in the lavender growing and retail industry, the perfumery, food and cosmetics industries, and to those interested in lavender for alternative and conventional medical use."

Contents.—**1)** General introduction to the genus *Lavandula*; **2)** The taxonomy of the genus *Lavandula* L.; **3)** History of usage of *Lavandula* species; **4)** History of nomenclature of *Lavandula* species, hybrids and cultivars; **5)** Lavender growing in England for essential oil **production**; **6)** The retail lavender nursery; **7)** Lavender growing in Australia; **8)** Naming and misnaming of lavender cultivars; **9)** Phytochemistry of the genus *Lavandula*; **10)** Distillation of the lavender type oils: theory and practice; **11)** Lavender essential oil: standardisation, ISO; adulteration and its detection using GC, enantiomeric columns and bioactivity; **12)** Lavender oil and its therapeutic properties; **13)** Pharmacology of *Lavandula* essential oils and extracts *in vitro* and *in vivo*; **14)** The psychological effects of lavender; **15)** Antimicrobial properties of lavender volatile oil; **16)** Lavender oil and its use in aromatherapy; **17)** Perfumery uses of lavender and lavaridin oils; **18)** Miscellaneous uses of lavender and lavender oil: use in hair products, food flavouring, tisanes, herbal pillows and medicinal products; **19)** New research into *Lavandula* species, hybrids and cultivars; **20)** Further research into *Lavandula* species: cell cultures of *L. vera* and rosmarinic acid production; **21)** *Lavandula* × *heterophylla* and *L.* × *allardii*: a puzzling complex; **22)** Comparative study of essential oil quantity and composition from ten cultivars of organically grown lavender and lavandin; **23)** Chemical **profiles** of lavender oils and pharmacology; **24)** Chemical composition of essential oils from different species, hybrids and cultivars of *Lavandula*

P.N. RAVINDRAN and K.J. MADHUSOODANAN (eds.). 2003. **Cardamon: The Genus *Elettaria***. (ISBN 0-415-28493-7, hbk.). **Medicinal and Aromatic Plants—Industrial Profiles. Volume 30**. Series Editor: Roland Hardman. Taylor & Francis, 11 New Fetter Lane, London EC4P 4EE, UK and 29 West 35th Street, New York, NY 10001,

U.S.A. (Orders: info@tandf.co.uk, www.tandf.co.uk, 44 (0) 207 583 9855, fax 44 (0) 207-842-2298, standing orders call 44 (0) 1264 343071. **US and Canada Customers:** By mail: Taylor & Francis Customer Service, 10650 Toebben Drive, Independence, KY 41051, U.S.A., Toll Free Tel: 1-800-634-7064, Toll Free Fax: 1-800-248-4724, email: cserve@routledge-ny.com). \$128.00, 374 pp., figs. (b/w photos, line drawings, graphs), tables, 7" × 10".

From Taylor & Francis website.—"A textbook and reference work for scientists and students of horticulture, botany and related fields, this book will be the main reference volume on cardamom for many years to come.

Contents.—**1)** Introduction; **2)** Botany, crop improvement and biotechnology of cardamom; **3)** Chemistry of cardamom; **4)** Agronomy and management of cardamom; **5)** Nutrition of cardamom; **6)** Viral diseases of cardamom; **7)** Diseases of cardamom (fungal, bacterial and nematode diseases); **8)** Insect pests of cardamom; **9)** Harvesting and processing of cardamom; **10)** Industrial processing and products of cardamom; **11)** Cardamom economy; **12)** Properties and end-uses of cardamom; **13)** Cardamom - future vision; **14)** **Yield** gaps and production constraints in cardamom; **15)** Large cardamom (*Amomum subulatum* Roxb.); **16)** False cardamoms; **Appendix 1:** Specification for cardamom; **Appendix 2:** Selected recipes; and Index.

STEPHEN FREER. 2003. **Linnaeus' Philosophia Botanica.** (ISBN 0-19-850122-6, hbk.).

Translated from the Latin in 1751 by Stephen Freer. Oxford University Press. (Orders: Oxford University Press, 2001 Evans Road, Cary, NC 27513, U.S.A., 800-451-7556, 919-677-1303 fax, www.oup.com). \$277.50, 402 pp., 10 plates with numerous figs., 8 1/2" × 11".

What a fascinating book this is, the translation of Carol Linnaeus' *Philosophia Botanica* (The Science of Botany). The work was originally published in Latin in 1751 in Stockholm and Amsterdam. Stephen Freer's translation is a blessing to botanists, taxonomists, historians, and other interested parties; it gives a new lease on and insight into the work of the father of modern systematics, Carl Linnaeus.—*Barney Lipscomb, Botanical Research Institute of Texas, 509 Pecan St, Fort Worth, TX 76102-4060, U.S.A., barney@brit.org.*

EDZARD ERNST (ed.). 2003. **Hypericum: The Genus Hypericum.** (ISBN 0-415-36954-1, hbk.). **Medicinal and Aromatic Plants—Industrial Profiles. Volume 31.** Series Editor: Roland Hardman. Taylor & Francis, 11 New Fetter Lane, London EC4P 4EE, UK and 29 West 35th Street, New York, NY 10001, U.S.A. (Orders: info@tandf.co.uk, www.tandf.co.uk, 44 (0) 207 583 9855, fax 44 (0) 207-842-2298, standing orders call 44 (0) 1264 343071. **US and Canada Customers:** By mail: Taylor & Francis Customer Service, 10650 Toebben Drive, Independence, KY 41051, U.S.A., Toll Free Tel: 1-800-634-7064, Toll Free Fax: 1-800-248-4724, email: cserve@routledge-ny.com). \$120.00, 241 pp., figs. (color and b/w photos, line drawings, graphs), tables, 7" × 10".

From Taylor & Francis website.—"St John's wort (*Hypericum perforatum*) is one of the best-selling herbal medicines worldwide. This landmark book provides a summary of our current knowledge on

a wide range of issues. It covers botany and includes plant infections, cultivation, manufacturing, standardisation, quality control, biochemistry, pharmacology and clinical application. Within this wide range of topics this volume aims to tackle some previously unanswered questions, such as: Which are the pharmacologically active compounds? Is St John's wort effective for severe depression? What are its mechanisms of action? What are the long-term effects and risks? Should St John's wort products be marketed as dietary supplements or as drugs? How does it compare to synthetic drugs for the same indication?"

Contents.—**1)** *Hypericum* botany; **2)** *Colletotrichum gloeosporioides* as the cause of St John's wort (*Hypericum perforatum*) dieback in Switzerland and breeding for a tolerant variety; **3)** A virus causing vein yellowing and necrotic leaf spots of St John's wort (*Hypericum perforatum* L.); **4)** St John's wort herb extracts: manufacturing, standardisation and characterisation; **5)** Culture and biotechnology of *Hypericum*; **6)** Chemical constituents of *Hypericum* spp.; **7)** Determination of hypericins and hyperforin in herbal medicinal products; **8)** Secondary metabolites content of *Hypericum* sp. in different stages and plant parts; **9)** Herbal medicinal products of St John's wort: manufacturing and quality control; **10)** The potential of *in vitro* cultures of *Hypericum perforatum* and of *Hypericum androsaemum* to produce interesting pharmaceutical compounds; **11)** The clinical pharmacology of *Hypericum perforatum*; **12)** Hypericin as a potential antitumour agent (the work of Professor Kyurig-Tae Lee's group in Seoul); **13)** Neuropsychopharmacological studies on Indian *Hypericum perforatum* Linn; **14)** *Hypericum* in the treatment of depression; and Index.

AMIT KRISHNA DE (ed.). 2003. **Capsicum: The Genus Capsicum**. (ISBN 0-415-29991-8, hbk.). **Medicinal and Aromatic Plants—Industrial Profiles. Volume 33**. Series Editor: Roland Hardman. Taylor & Francis, 11 New Fetter Lane, London EC4P 4EE, UK and 29 West 35th Street, New York, NY 10001, U.S.A. (Orders: info@tandf.co.uk, www.tandf.co.uk, 44 (0) 207 583 9855, fax 44 (0) 207-842-2298, standing orders call 44 (0)1264 343071. **US and Canada Customers:** By mail: Taylor & Francis Customer Service, 10650 Toebben Drive, Independence, KY 41051, U.S.A., Toll Free Tel: 1-800-634-7064, Toll Free Fax: 1-800-248-4724, email: cserve@routledge-ny.com). \$125.00, 275 pp., figs. (b/w photos, graphs), tables, 7" × 10".

From Taylor & Francis website.—"This book, written by experts, includes material that deals with a variety of aspects, including ethnobotany, chemistry, pharmacology, toxicology, cultivation, analysis, tissue culture and commercial aspects of Capsicum.

Contents.—**1)** *Capsicum*: historical and botanical perspectives; **2)** A glimpse of the world trade in *Capsicum*; **3)** Chemistry and quality control of *Capsicums* and *Capsicum* products; **4)** Pungency principles in *Capsicum* - analytical determinations and toxicology; **5)** Biosynthesis of capsaicinoids in **Capsicum**; **6)** Biotechnological studies on *Capsicum* for metabolite production and plant improvement; **7)** Irrigational aspects of *Capsicum*; **8)** The cultivation and processing of *Capsicum* in India; **9)** The preservation and production of *Capsicum* in Hungary; **10)** Post-harvest handling and processing of *Capsicums*; **11)** Advances in post-harvest processing technologies of *Capsicum*; **12)** The storage of *Capsicum*; **13)** Current requirements on paprika powder for food industry; **14)** Adulterants, contaminants and pollutants in *Capsicum* products; **15)** Colour differences in peppers and paprikas; **16)** Future perspectives of capsaicin research; and Index.

ALISTER D. MUIR and NEIL D. WESTCOTT (eds.). 2003. **Flax: The Genus *Linum***. (ISBN 0-415-30807-0, hbk.). **Medicinal and Aromatic Plants—Industrial Profiles. Volume 34**. Series Editor: Roland Hardman. Taylor & Francis, 11 New Fetter Lane, London EC4P 4EE, UK and 29 West 35th Street, New York, NY 10001, U.S.A. (Orders: info@tandf.co.uk, www.tandf.co.uk, 44 (0) 207 583 9855, fax 44 (0) 207-842-2298, standing orders call 44 (0)1264 343071. **US and Canada Customers:** By mail: Taylor & Francis Customer Service, 10650 Toebben Drive, Independence, KY 41051, U.S.A., Toll Free Tel: 1-800-634-7064, Toll Free Fax: 1-800-248-4724, email: cserve@routledge-ny.com). \$135.00, 307 pp., figs. (b/w photos, line drawings, graphs), tables, 7" × 10".

From Taylor & Francis website.—"This volume is a comprehensive review of the genus covering all aspects of the taxonomy, chemistry, cultivation, pharmacology and commercial uses of flax, and includes chapters on the disease prevention potential of these plants.

Contents.—**1)** Introduction: history of the cultivation and uses of flaxseed; **2)** Cultivated flax and the genus *Linum* L.: Taxonomy and germplasm conservation; **3)** Chemical studies on the constituents of *Linum* spp.; **4)** Cultivation of flax; **5)** Principal diseases of flax; **6)** Principal insect pests of flax; **7)** The contribution of α -linolenic acid in flaxseed to human health; **8)** The role of flaxseed lignans in hormone-dependent and independent cancer; **9)** Flaxseed in the prevention of cardiovascular diseases; **10)** Flaxseed and flaxseed lignans: Effects on the progression and severity of renal failure; **11)** Mammalian metabolism of flax lignans; **12)** Flaxseed constituents and human health; **13)** Traditional food and medicinal uses of flaxseed; **14)** Use of flaxseed in animal diets to create consumer products with modified fatty acid profiles; **15)** Current market trends and economic importance of oilseed flax; **16)** Current regulatory status of flaxseed and commercial products; and Index.

GULSEL M. KAVALALI (eds.). 2003. **Urtica: Therapeutic and Nutritional Aspects of Stinging Nettles**. (ISBN 0-415-30833-X, hbk.). **Medicinal and Aromatic Plants—Industrial Profiles. Volume 37**. Series Editor: Roland Hardman. Taylor & Francis, 11 New Fetter Lane, London EC4P 4EE, UK and 29 West 35th Street, New York, NY 10001, U.S.A. (Orders: info@tandf.co.uk, www.tandf.co.uk, 44 (0) 207 583 9855, fax 44 (0) 207-842-2298, standing orders call 44 (0)1264 343071. **US and Canada Customers:** By mail: Taylor & Francis Customer Service, 10650 Toebben Drive, Independence, KY 41051, U.S.A., Toll Free Tel: 1-800-634-7064, Toll Free Fax: 1-800-248-4724, email: cserve@routledge-ny.com). \$90.00, 83 pp., 1 b/w photo, tables, 7" × 10".

From Taylor & Francis website.—"This volume explores the historical and modern uses of the *Urtica* genus. An account of the botanical aspects of the genus is followed by a comprehensive review of the recent research into its biologically active constituents. With further coverage of the therapeutic uses and its nutritional value, this book presents an absorbing and all-encompassing account of the medicinal potential of *Urtica*, which will be of considerable interest to herbalists, health scientists and botanists as well as researchers in the pharmaceutical industry.

Contents.—**1)** An introduction to *Urtica* (botanical aspects); **2)** Historical and modern uses of *Urtica*; **3)** The chemical and pharmacological aspects of *Urtica*; **4)** Various therapeutic uses of *Urtica*; **5)** The therapeutic uses of *Urtica* in benign prostatic hyperplasia; **6)** Nutritional evaluation of *Urtica* species; **7)** *Urtica* products; and Index.

Traditional Herbal Medicines for Modern Times

YUKIO OGIHARA and MASAKI ABURADA (eds.). 2003. **Sho-Saiko-To: Scientific Evaluation and Clinical Applications**. (ISBN 0-415-30837-2, hbk.). **Traditional Herbal Medicines for Modern Times. Volume 4**. Series Editor: Roland Hardman. Taylor & Francis, 11 New Fetter Lane, London EC4P 4EE, UK and 29 West 35th Street, New York, NY 10001, U.S.A. (Orders: info@tandf.co.uk, www.tandf.co.uk, 44 (0) 207 583 9855, fax 44 (0) 207-842-2298, standing orders call 44 (0)1264 343071. **US and Canada Customers:** By mail: Taylor & Francis Customer Service, 10650 Toebben Drive, Independence, KY 41051, U.S.A., Toll Free Tel: 1-800-634-7064, Toll Free Fax: 1-800-248-4724, email: cserve@routledge-ny.com). \$120.00, 223 pp., 81 figs. (b/w photos, graphs), tables, 7" × 10".

From Taylor & Francis website.—“Sho-Saiko-To serves as a reference for researchers and practitioners who wish to gain a scientific understanding of Sho-Saiko-To and discover how this and other Kampo medicines may be effectively integrated into Western medicine.

Contents.—**1)** Introduction; **2)** Traditional usage and therapeutic indication; **3) Crude drugs I:** taxonomical items, collection and cultivation, production etc.; **Crude drugs II:** phytochemical studies of ingredients and analytical evaluation; **Crude drugs III:** structural transformation of ingredients; **Crude drugs IV:** pharmacological and biochemical studies of medicinal plants of Sho-saiko-to; **4)** Formulation I: quality assessment, manufacturing technology and quality control of Sho-saiko-to extract formulation; Formulation II: pharmacokinetics, toxicology and pharmacology of Sho-saiko-to; **5)** Clinical studies; **6)** Recent topics on Sho-saiko-to and other Kampo medicines; and Index.

Biographical/Bibliographical

UNIVERSITY OF TENNESSEE PRESS

CHARLES BOEWE (ed.). 2003. **Profiles of Rafinesque**. (ISBN 1-57233-225-5, hbk.). University of Tennessee Press, Suite 110, Conference Center Building, Knoxville, TN 37996-0110, U.S.A. (Orders: fax 865-974-3724, tpost@utk.edu, www.utpress.org). \$45.00, 411 pp., 45 figs., 1 color plate, 5" × 9".

As a graduate student, Charles Boewe, editor of *Profiles of Rafinesque* “developed an extracurricular curiosity about C.S. Rafinesque.” After reading this book one can easily understand the fascination for this multi-faceted, multilingual, maverick. Using a number of published essays by various writers (including himself) Boewe has compiled a compelling biography of Constantin Samuel Rafinesque and at the same time sketched a picture of the state of 19th century natural science.

In his introduction, the editor discusses the difficulties of finding decisive biographical material and depends on an address given by Francis W. Pennell in 1940 to supply the framework for an authentic account of the life. This interesting essay gives an overview of Rafinesque’s work in an alphabet of scientific fields with excursions into banking and manufacturing. Another writer deals with his position as a field naturalist, taxonomist, and biological theoretician in terms of modern knowledge.

Rafinesque regarded himself primarily as a traveler and nothing he encountered was beyond his purview including the study of man. He was intrigued by the American Indians he met on his journeys, studied their languages and customs and endeavored to explain the mysterious Indian

mounds he saw. His contributions to ethnology and philology and the hoax of the *Walum Olum* are the subjects of a fascinating section.

Another part of the book is concerned with Rafinesque as a writer. There is a dissection of his two-volume *Medical Flora*. Another essayist pays tribute to him as a popularizer of botany—a trend in the 19th century—with his book *School of Flora*.

The final section contains an account by John James Audubon of Rafinesque's three week visit with him in Florida where Rafinesque collected "multitudes of plants, shells, bats, and fishes." And at the last Boewe clears up the mystery of where Rafinesque is buried, but not quite.

Each of the essays is self-contained. Together they offer a splendid biography of an intriguing character. The copious notes and 45 figures add to the value of this excellent work.—*Ruth Ginsburg, Botanical Research Institute of Texas, Fort Worth, TX, 76102-4060, U.S.A.*

MARY COKER JOSLIN with drawings by SANDRA BROOKS-MATHERS. 2003. **Essays on William Chambers Coker, Passionate Botanist.** (ISBN 0-9721600-0-0, hbk.). University of North Carolina at Chapel Hill Library and the Botanical Garden Foundation, Inc. (Orders: BGF Book Sales, c/o North Carolina Botanical Garden, Totten Center CB#3375, University of North Carolina, Chapel Hill, NC 27599-3375, U.S.A., 919-962-0522). \$30.00, 197 pp., b/w photos, color photos, drawings, 6" × 9 1/4".

HOWARD GARRETT. 2003. **Dear Dirt Doctor: Questions Answered the Natural Way.** (ISBN 0-292-72847-6, pbk.). University of Texas Press, P.O. Box 7819, Austin, TX 78713-7819, U.S.A. (Orders 800-252-3206 512-471-4032, 800-687-6046 fax). \$16.95, 240 pp., 5 1/2" × 8 1/2".

Howard Garret, Dallas/Fort Worth's champion of gardening without toxic chemicals, has revised and updated his 1995 *Dirt Doctor's Guide to Organic Gardening* to a fast-reading, fact-filled interaction between the Dirt Doctor and his personal bounty of garden knowledge and the plant woes and wisdom of his readers and talk show listeners. From the opening chapter on the common sense and economics of gardening organically to the closing on chasing off armadillos and mice with cayenne pepper powder (it worked on one smart marauding mouse in my house!), Mr. Garrett covers soil and bed preparation, compost, synthetic vs. natural fertilizers, pest control and beneficial insects, landscaping ideas and maintenance, trees, herbs, food crops, wildflowers, turf, and indoor houseplants. The coverage is attention-grabbing, not refried generalities. For instance, on mosquitoes a reader tip relates a New Delhi research report on using peppermint oil to repel the pest and kill its larvae. I sprinkled my rainwater barrels with the oil immediately. It worked. On the subject of herbs, the opening paragraph touts cinnamon oil, garlic, clovers, oregano and sage as proven destroyers of even the most dangerous strains of *E. coli*. I have used this herbal paramedic squad for eight years to keep me out of a doctor's office. They deserve opening line prominence.

A grand salute is in order to Howard Garrett for a most impressive compilation of information—with but one caveat! There are rumblings of discontent in his cornmeal paradise (see page 71). Humalfa Corporation's website, www.hu-more.com advises against the use of cornmeal with its "Green Bag" product after disturbing results from the field. There is more research to be done on its effectiveness.—*Karen M. Foley, Fort Worth, Texas.*